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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/718,499	11/19/2003	Nathaniel E. David	110191.402	8232
	00 7590 06/04/2008 SEED INTELLECTUAL PROPERTY LAW GROUP PLLC		EXAMINER	
701 FIFTH AVE			CARTER, CANDICE D	
SUITE 5400 SEATTLE, WA 98104			ART UNIT	PAPER NUMBER
			3629	
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			06/04/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/718,499	DAVID, NATHANIEL E.				
Office Action Summary	Examiner	Art Unit				
	CANDICE D. CARTER	3629				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>19 No</u>	ovember 2003					
	action is non-final.					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-25</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-25</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>19 November 2003</u> is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)☐ All b)☐ Some * c)☐ None of:						
a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
,						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P					
Paper No(s)/Mail Date <u>2/6/2008, 1/22/2007, 8/27/2004</u> .						

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DETAILED ACTION

1. This communication is a First Action Non-Final on the merits. Claims 1-25, as originally filed, are currently pending and have been considered below.

Claim Objections

- 2. Claim 22 is objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim must refer to claims in the alternative. See MPEP § 608.01(n). Accordingly, the claim 22 has not been further treated on the merits.
- 3. Claim 11 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 11 recites the limitation "sell said achaogen and said compound". This does not further limit the parent claim 1 because claim 1 recites "selling said compound with an achaogen". Examiner contends that selling a compound with an achaogen in order to sell said achaogen with said compound, a company would have to sell both said achaogen and said compound.

Claim Rejections - 35 USC § 101

4. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-25 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claims 1-25 recite the limitations: identifying an antibiotic, determining if bacteria develops resistance to the antibiotic and selling the compound with an achaogen.

Examiner contends that a process must be (1) tied to another statutory class (suck as a particular apparatus) or (2) transform underlying subject matter (such as an article or materials) to a different state or thing. Neither of these requirements is met by these claims, therefore, these claims do not qualify as a statutory process.

Claim Rejections - 35 USC § 112

5. Claim 11 recites the limitation "said biopharmaceutical company" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1, 11, 13-16, 20, 21, 23, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hergenrother et al. (2003/0130169, hereinafter Hergenrother).

As per claim 1, Hergenrother discloses "A business method comprising:

identifying a compound that is effective as an antibiotic" (¶ 18 discloses that for treatments of drug resistant bacterial infections, the drug is selected from a group of antibiotics);

"determining if bacteria develop resistance to said compound whereby said compound would have decreased market potential because of, at least in part, said resistance" (¶ 14 discloses discovering methods to combat antibiotic resistant bacterial infections, where it is inherent that the bacteria has been determined to develop a resistance to the antibiotic);

"And administering said compound with an achaogen" (¶ 16 discloses administering an antiplasmid composition with the antibiotic, where the antiplasmid composition is used to sensitize the bacteria to the antibiotic and where, the antiplasmid accomplishes the same goal as the achaogen).

Hergenrother, however, fails to explicitly disclose that the compound is sold with the achaogen. It would have been obvious to one of ordinary skill in the pertinent art at the time the invention was made to modify the method of treating drug resistant bacterial infection of Hergenrother to include the selling of an antibiotic with an achoagen because it is old and well known to sell antibiotics, drugs, or improvements thereof in order to make them accessible to the public.

As per claim 11, Hergenrother discloses all of the elements of the claimed invention but fails to explicitly disclose "said biopharmaceutical company sells achaogen and said compound".

It would have been obvious to one of ordinary skill in the pertinent art at the time the invention was made to modify the method of treating drug resistant bacterial infection of Hergenrother to include the selling of an antibiotic with an achoagen

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because it is old and well known to sell antibiotics, drugs, or improvements thereof in order to make them accessible to the public.

As per claims 13-16, and 24, Examiner considers a preclinical compound, a compound in clinical trials, a marketed compound, and an off-patent compound to be nonfunctional descriptive material as recited. The type of compound does not change the function of the claimed invention. Examiner contends that the methods of treating drug-resistant bacterial infections of Hergenrother are fully capable of using or selling the recited compounds of claims 13-16 and 24. See rejection of claim 1 above.

As per claims 21 and 23, Examiner considers the specific type of achaogen used to be nonfunctional descriptive material as recited. The type of achaogen does not change the function of the claimed invention. Examiner contends that the methods of treating drug-resistant bacterial infections of Hergenrother are fully capable of using or selling the recited achaogens of claims 13-16 and 24. See rejection of claim 1 above.

8. Claims 2, 3, 6-10, 17, 19, 20, and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hergenrother in view of Nurton (1999).

As per claim 2, Hergenrother discloses all of the elements of the claimed invention but fails to explicitly disclose "a biopharmaceutical company licensing rights from another organization to said compound".

Nurton discloses the role of intellectual property in pharmaceutical deals where a biopharmaceutical company licenses rights from an organization to particular drugs (pg. 2, ¶ 4, discloses licensing patent rights in order to develop a commercial product).

Therefore, it would have been obvious to one of ordinary skill in the pertinent art at the time the invention was made to modify the methods of treating drug-resistant bacterial infections to include the licensing of patent rights as taught by Nurton in order to develop a commercial product without infringement issues.

As per claim 3, Hergenrother discloses administering an achaogen with a compound (¶ 16 discloses administering an antiplasmid composition with the antibiotic, where the antiplasmid composition is used to sensitize the bacteria to the antibiotic and where, the antiplasmid accomplishes the same goal as the achaogen.

Hergenrother, however, fails to explicitly disclose that the compound is sold with the achaogen. It would have been obvious to one of ordinary skill in the pertinent art at the time the invention was made to modify the method of treating drug resistant bacterial infection of Hergenrother to include the selling of an antibiotic with an achaogen because it is old and well known to sell antibiotics, drugs, or improvements thereof in order to make them accessible to the public.

Hergenrother, also, fails to disclose "a biopharmaceutical company collecting royalties from a pharmaceutical company that sells a product".

Nurton discloses the role of intellectual property in pharmaceutical deals involving the collection of royalties (pg. 2, ¶ 4, discloses royalty streams).

Therefore, it would have been obvious to one of ordinary skill in the pertinent art at the time the invention was made to modify the method of treating drug resistant bacterial infections of Hergenrother to include the collection of royalties as taught by Nurton in order to compensate the patent owners for using their intellectual property.

As per claim 6, Hergenrother discloses performing experiments to identify said achaogen (abstract discloses identifying compositions by screening methods, where the screening methods are a form of experimentation).

Hergenrother, however, fails to explicitly disclose a biopharmaceutical company performing the experimentation.

Nurton discloses the role of intellectual property in pharmaceutical deals where the biopharmaceutical company performs experimentation (pg. 2, ¶ 7 discloses biopharmaceutical companies performing research to identify new drugs).

Therefore, it would have been obvious to one of ordinary skill in the pertinent art at the time the invention was made to modify the methods of treating drug resistant bacterial infections of Hergenrother to include that the experimentations were performed by the biopharmaceutical company as taught by Nurton in order to ensure that proper experimentation is performed.

As per claim 7, Hergenrother discloses all of the elements of the claimed invention but fails to explicitly disclose "biopharmaceutical company performs said experiments for a pharmaceutical company that has the right to sell said compound".

Nurton discloses the role of intellectual property in pharmaceutical deals where the biopharmaceutical company performs said experiments for a pharmaceutical company that has the right to sell antibiotics (pg. 2, ¶ 6 and 7 discloses biopharmaceutical companies performing research to identify new drugs, where these companies receive funding from pharmaceutical companies who currently have the right to sell antibiotics).

Therefore, it would have been obvious to one of ordinary skill in the pertinent art at the time the invention was made to modify the methods of treating drug resistant bacterial infections of Hergenrother to include the biopharmaceutical company performing said experiments for a pharmaceutical company that has the right to sell antibiotics as taught by Nurton in order to ensure that proper experimentation is performed.

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As per claim 8, Hergenrother discloses all of the elements of the claimed invention but fails to explicitly disclose "pharmaceutical company pays research fees to said biopharmaceutical company".

Nurton discloses the role of intellectual property in pharmaceutical deals involving the payment of research fees (pg. 2, ¶ 6 discloses research costs and overhead).

Therefore, it would have been obvious to one of ordinary skill in the pertinent art at the time the invention was made to modify the methods of treating drug resistant bacterial infections of Hergenrother to include the payment of research fees as taught by Nurton in order to compensate the biopharmaceutical company for all research performed and to fund future research.

As per claim 9, Hergenrother discloses all of the elements of the claimed invention but fails to explicitly disclose "pharmaceutical company pays royalties to said biopharmaceutical company for sales of said compound".

Nurton discloses the role of intellectual property in pharmaceutical deals involving the collection of royalties (pg. 2, ¶ 4, discloses royalty streams).

Therefore, it would have been obvious to one of ordinary skill in the pertinent art at the time the invention was made to modify the method of treating drug resistant bacterial infections of Hergenrother to include the collection of royalties as taught by Nurton in order to compensate the patent owners for using their intellectual property.

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As per claim 10, Hergenrother discloses "identifying said achaogen for use with said compound (abstract and ¶ 16 discloses administering an antiplasmid composition with the antibiotic, where the antiplasmid composition is used to sensitize the bacteria to the antibiotic and where, the antiplasmid accomplishes the same goal as the achaogen).

Hergenrother, however, fails to explicitly disclose "a biopharmaceutical company licenses or acquires said compound from a pharmaceutical company".

Nurton discloses the role of intellectual property in pharmaceutical deals involving licensing or acquiring drugs (pg. 3, ¶ 4 discloses that developing a commercial product involves either licensing in or merging, where merging is acquiring).

Therefore, it would have been obvious to one of ordinary skill in the pertinent art at the time the invention was made to modify the methods of treating drug resistant bacterial infections of Hergenrother to include the licensing or acquiring of antibiotics as taught by Nurton in order to avoid infringement issues.

As per claim 17, Hergenrother discloses all of the elements of the claimed invention but fails to explicitly disclose "patenting a new combination of an achaogen and said compound".

Norton discloses the role of intellectual property in pharmaceutical deals involving the patenting of drugs (pg. 6, ¶ 3 disclose obtaining patent ownership).

Therefore, it would have been obvious to one of ordinary skill in the pertinent art at the time the invention was made to modify the methods of treating drug resistant bacterial infections of Hergenrother to include the patenting of pharmaceutical products as taught by Nurton in order to protect intellectual property.

Claim 25 recites equivalent limitations to claim 17 and is, therefore, rejected using the same art and rationale as set forth above.

As per claim 19, Hergenrother discloses identifying said achaogen for use with said compound (abstract and ¶ 16 discloses administering an antiplasmid composition with the antibiotic, where the antiplasmid composition is used to sensitize the bacteria to the antibiotic and where, the antiplasmid accomplishes the same goal as the achaogen).

Hergenrother, however, fails to explicitly disclose "a biopharmaceutical company licenses said compound from a pharmaceutical company and pharmaceutical company licensing the use of the compound with the achaogen".

Nurton discloses the role of intellectual property in pharmaceutical deals involving the licensing of pharmaceutical products (pg. 3, ¶ 4 discloses that developing a commercial product involves either licensing in or merging).

Therefore, it would have been obvious to one of ordinary skill in the pertinent art at the time the invention was made to modify the methods of treating drug resistant

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bacterial infections of Hergenrother to include the licensing of drugs as taught by Nurton in order to avoid infringement issues.

The Hergenrother and Nurton combination, however, fails to explicitly disclose that a biopharmaceutical company licenses said compound from a pharmaceutical company and pharmaceutical company licensing the use of the compound with the achaogen.

It would have been obvious to one of ordinary skill in the pertinent art at the time the invention was made to modify the methods of treating drug resistant bacterial infections of the Hergenrother and Nurton combination to include a biopharmaceutical company licensing said compound from a pharmaceutical company and pharmaceutical company licensing the use of the compound with the achaogen because fragmentation of patent rights is old and well known in the art and in order to profit from products that are owned by another company, companies must either acquire the product or license-in.

As per claim 20, Examiner considers the recited method of performing the experiments is nonfunctional descriptive material. The type of experiments performed by the biopharmaceutical company does not change the function of the claimed invention. The chosen method of performing the experiments to identify drug resistant bacteria does not affect the overall method of identifying the compound, determining if there is a resistance, and selling the compound with an achaogen. Examiner contends that the methods of treating drug-resistant bacterial infections of the Hergenrother and

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Nurton combination are fully capable of using the recited experimentation methods. See rejection of claim 6 above.

9. Claims 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hergenrother in view of Business Wire (2000).

As per claim 4, Hergenrother discloses all of the elements of the claimed invention but fails to explicitly disclose "collecting fees from a pharmaceutical company".

Business Wire discloses pharmaceutical agreements involving the collection of fees (abstract discloses patent license fees).

Therefore, it would have been obvious to one of ordinary skill in the pertinent art at the time the invention was made to modify the methods of treating drug resistant bacterial infections of Hergenrother to include the collection of fees as taught by Business Wire in order to compensate patent owners for using their intellectual property.

As per claim 5, Hergenrother discloses all of the elements of the claimed invention but fails to explicitly disclose "wherein said fees comprise at least one of license fees and milestone fees".

Business Wire discloses pharmaceutical agreements involving the collection of fees (abstract discloses patent license fees and conditional milestones).

Therefore, it would have been obvious to one of ordinary skill in the pertinent art at the time the invention was made to modify the methods of treating drug resistant bacterial infections of Hergenrother to include the collection of fees as taught by Business Wire in order compensate patent owners for using their intellectual property.

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10. Claims 12 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hergenrother in view of Nurton and further in view of Business Wire.

As per claim 12, the Hergenrother and Nurton combination discloses all of the elements of the claimed invention but fails to explicitly disclose "licensing a selling company to sell said compound with said achaogen".

Business Wire discloses pharmaceutical agreements involving the licensing of drugs to a selling company to sell pharmaceutical products (abstract discloses IDEC and Taisho obtaining commercialization rights to pharmaceutical products through licensing).

Therefore, it would have been obvious to one of ordinary skill in the pertinent art at the time the invention was made to modify the methods of treating drug resistant bacterial infections of the Hergenrother and Nurton combination to include the licensing of a selling company to sell pharmaceutical products as taught by Nurton in order to avoid infringement issues.

Claim 18 recites equivalent limitations to claim 12 and is, therefore, rejected using the same art and rationale as set forth above.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Brindavanam et al. (6,599,541) discloses composition for treatment of drug resistant bacterial infections. Carrier (2003) discloses resolving the patent anti-trust paradox.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to CANDICE D. CARTER whose telephone number is (571) 270-5105. The examiner can normally be reached on Monday thru Thursday 7:30am- 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Weiss can be reached on (571) 272-6812. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CDC

/John G. Weiss/ Supervisory Patent Examiner, Art Unit 3629